

CONVERSION OF PETROLEUM RESID TO USABLE OILS WITH ULTRASOUND

ABSTRACT OF THE DISCLOSURE

Petroleum residua are combined with water or an aqueous solution to form an emulsion which is then treated with ultrasound at a sufficient intensity and for a sufficient period of time to cause a conversion of the heavy hydrocarbon components of the residua to lighter components, thereby shifting the entire boiling point curve to lower boiling points. This allows one to draw a greater proportion of usable oil from the residua.

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